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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/734,294	12/15/2003	Seon Yong Cha	40296-0048	1788	
26633	7590 08/24/2005	EXAMINER			
******	HRMAN WHITE & MO	DICKEY, T	DICKEY, THOMAS L		
	E ISLAND AVE, NW ON, DC 20036-3001	ART UNIT	PAPER NUMBER		
	,		2826		
			DATE MAILED: 08/24/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

					X					
<u> </u>		Application N	o.	Applicant(s)	<u></u>					
Office Action Summary		10/734,294		CHA, SEON YONG	3					
		Examiner		Art Unit						
		Thomas L. Dic	kev	2826						
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period 1	for Reply									
THE - Ext afte - If th - If N - Fai Any	HORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 or SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period valure to reply within the set or extended period for reply will, by statute or reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, ho y within the statutory r will apply and will expi , cause the application	owever, may a reply be tin minimum of thirty (30) day re SIX (6) MONTHS from n to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).						
Status										
1)🖾	Responsive to communication(s) filed on 25 Ju	uly 2005.								
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This	action is non-fi	nal.							
3)□	Since this application is in condition for allowar	nce except for f	ormal matters, pro	secution as to the	merits is					
	closed in accordance with the practice under E	Ex parte Quayle	, 1935 C.D. 11, 45	53 O.G. 213.						
Disposi	tion of Claims									
4)⊠	Claim(s) 2-13 is/are pending in the application.									
	4a) Of the above claim(s) 6-13 is/are withdrawn from consideration.									
5)□	Claim(s) is/are allowed.									
6)⊠	Claim(s) <u>2-4</u> is/are rejected.									
7)⊠	Claim(s) <u>5</u> is/are objected to.									
8)□	Claim(s) are subject to restriction and/or	r election requir	ement.							
Applica	tion Papers									
9)[The specification is objected to by the Examine	er.								
10)⊠	The drawing(s) filed on 25 July 2005 and 15 De	ecember 2003 is	s/are: a)⊠ accep	ted or b)□ objecte	ed to by the					
Examiner.										
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
. <u> </u>	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)	The oath or declaration is objected to by the Ex	aminer. Note th	ne attached Office	Action or form PT	O-152.					
Priority	under 35 U.S.C. § 119									
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents			-(d) or (f).						
	2. Certified copies of the priority documents			on No						
	<u> </u>		* *		Stane					
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
*	* See the attached detailed Office action for a list of the certified copies not received.									
Attachmer	nt(s)									
	ce of References Cited (PTO-892)	4) 🗆	Interview Summary							
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Г	Paper No(s)/Mail Da Notice of Informal P	ate atent Application (PTO-	-152)					
	er No(s)/Mail Date <u>06/28/2005</u> .	6)	Other:		,					

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DETAILED ACTION

1. The amendment filed on 07/25/05 has been entered.

2. Due to the application of new art (Cha 2002/0140016) this rejection is non-final) It should be noted that Cha 2002/0140016 is the English language equivalent of KR 2002-0076460, which applicant cites on his 6/28/05 IDS.

Drawings

3. The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on 7/25/05 have been approved.

Information Disclosure Statement

4. The Information Disclosure Statement filed on 6/28/05 has been considered.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 2-4 are rejected under 35 U.S.C. 102(b) as being anticipated by CHA (2002/0140016).

Cha discloses a magnetoresistive random access memory comprising a vertical structure field effect transistor, wherein the vertical structure field effect transistor has a channel column 115 and a drain area 117 sequentially formed on an insulation substrate 111, its source area 113 formed on the insulation substrate 111 on which the channel column 115 has not been formed, and its read word lines 121 formed around the channel column 115 to serve as a gate 121 (the gate and the read lines are the same, in the close vicinity of the channel column), a contact line 125, a magnetic tunnel junction cell 200, a bit line 137 and a write word line 141 are sequentially formed on the drain area 117, wherein the source area 113 and the drain area 117 are formed according to ion implantation, and the channel column 115 is comprised of silicon and the read word lines 121 are comprised of polysilicon. Note figure 2A and paragraphs 0026-0029 of Cha.

The applicant's claims 2-4 do not distinguish over the Cha reference regardless of the process used to form the magnetic tunnel junction cell, because only the final product is relevant, not the recited process of aligning the magnetic tunnel junction cell in a matrix shape through a self-alignment method by using a bit line and a word line mask, without requiring a special mask process for forming the patterns of the magnetoresistive random access memory.

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Note that a "product by process" claim is directed to the product per se, no matter how actually made. In re Hirao, 190 USPQ 15 at 17 (footnote 3). See also In re Brown, 173 USPQ 685; In re Luck, 177 USPQ 523; In re Fessmann, 180 USPQ 324; In re Avery, 186 USPQ 161; In re Wertheim, 191 USPQ 90 (209 USPQ 554 does not deal with this issue); and In re Marosi et al., 218 USPQ 289, all of which make it clear that it is the patentability of the final product per se which must be determined in a "product by process" claim and not the patentability of the process, and that an old or obvious product produced by a new method is not patentable as a product, whether claimed in "product by process" claims or not. Note that applicant has the burden of proof in such cases, as the above caselaw makes clear. See also MPEP 706.03(e).

Allowable Subject Matter

6. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

7. Applicant's arguments with respect to claims 2-4 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas L Dickey whose telephone number is 571-272-1913. The examiner can normally be reached on Monday-Thursday 8-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan J Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas L. Dickey Patent Examiner Art Unit 2826 08/05

Ch Long